

How can I determine whether a geography, such as a county, is completely within an Urban Area, completely Rural, or a mix?

Data.census.gov does not have a way to determine whether a geography is completely within an Urban Area, completely Rural, or a mix. Instead, you can use the Missouri State Data Center's MABLE Geocorr tool to compare any two census geographies. Below is an example of using the MABLE Geocorr to determine if the counties in Arizona are completely within an Urban Area, completely Rural, or a mix, including percentage.

The MABLE Geocorr can be accessed at

<http://mcdc.missouri.edu/applications/geocorr2014.html>.

Step 1: Select the state. For this example, we are selecting Arizona.

MCDC Data Applications Missouri Census Data Center

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Geocorr 2014: Geographic Correspondence Engine

Rev. 9/10/2016 with Census 2010 (and later) geography

This application accesses the MABLE geographic database to generate custom correlation lists as reports and/or files. Click on the help icons (?) for detailed info on any section of this form. *Please note that processing time may be several minutes for large areas or multiple states.*

[Help](#) | [Examples](#) | [What's new](#) | [Other Geocorr versions](#)

INPUT OPTIONS

Select the state(s) to process: (?)

- Missouri
- Alabama
- Alaska
- Arizona**
- Arkansas
- California
- Colorado
- Connecticut

(ctrl-click to select multiple)

Select one or more source geographies: (?)

Entire Universe [no code]

State

2010 Geographies:

County

Select one or more target geographies: (?)

Entire Universe [no code]

State

2010 Geographies:

County

Notes for geography selectors:

- * If you chose census block, you may not choose more than 13 states.
- ** If you chose "Concentric Ring Pseudo-Geocode" from

Step 2: Select one or more source geographies. For this example, under 2014 Geographies, select County.

The screenshot shows the 'Select one or more source geographies' panel. A dropdown menu at the top lists states: Arkansas, California, Colorado, and Connecticut, with a note '(ctrl-click to select multiple)'. Below this, the '2014 Geographies' section is highlighted with a red box, and 'County' is selected within it. Other sections visible include '2013 Geographies', '2015 Geographies', 'Congressional Districts', and 'Other Geographies'. The 'Select one or more target geographies' panel is also visible, showing a list of target geographies. To the right, 'Notes for geography selectors' provide additional instructions.

Select one or more source geographies:

- Urban-Rural Portion
- Urbanized Area/Urban Cluster
- PUMA
- 2013 Geographies:**
 - Core Based Statistical Area (CBSA)
 - CBSA Type (Metro or Micro)
 - Metropolitan Division
 - Combined Statistical Area
 - Central County of CBSA
- 2014 Geographies:**
 - County**
 - County Subdivision/Town(ship)/MCD
 - Place (City, Town, Village, CDP, etc.)
 - State Legislative District — Upper Chamber
 - State Legislative District — Lower Chamber
 - Unified School District
 - Elementary School District
 - Secondary School District
 - Best School District
 - Best School District Type
- 2015 Geographies:**
 - Core Based Statistical Area (CBSA)
 - CBSA Type (Metro or Micro)
 - Metropolitan Division
 - Combined Statistical Area
- Congressional Districts:**
 - 111th Congress (2009-2010)
 - 113th Congress (2013-2014)
 - 114th Congress (2015-2016)
- Other Geographies:**

Select one or more target geographies:

- Entire Universe [no code]
- State
- 2010 Geographies:**
 - County
 - County Subdivision/Town(ship)/MCD
 - Place (City, Town, Village, CDP, etc.)
 - Census Tract
 - Census Block Group
 - Census Block*
 - ZIP/ZIPCTA
 - Core Based Statistical Area (CBSA)
 - CBSA Type (Metro or Micro)
 - Metropolitan Division
 - Combined Statistical Area
 - NECTA (New England only)
 - NECTA Division (New England only)
 - State Legislative District — Upper Chamber
 - State Legislative District — Lower Chamber
 - Unified School District
 - Elementary School District
 - Secondary School District
 - Best School District
 - Best School District Type
 - County Size Category
 - Place Size Category
 - Within-a-place Code
 - Census Place Code
- 2012 Geographies:**
 - State Legislative District — Upper Chamber
 - State Legislative District — Lower Chamber

Notes for geography selectors:

- * If you chose census block, you may not choose more than 13 states.
- ** If you chose "Concentric Ring Pseudo-Geocode" from either list, you *must* specify either **Point and Distance** or **Ring Geocode** options below.

See the [geographic glossary](#) for descriptions of the source and target geocodes used here.

Step 3: Select one or more target geographies. For this example, select Urban-Rural Portion found under the 2012 Geographies section.

The screenshot shows the 'Select one or more target geographies' panel. A dropdown menu at the top lists states: Arkansas, California, Colorado, and Connecticut, with a note '(ctrl-click to select multiple)'. Below this, the '2012 Geographies' section is highlighted with a red box, and 'Urban-Rural Portion' is selected within it. Other sections visible include '2010 Geographies', '2013 Geographies', '2014 Geographies', '2015 Geographies', 'Congressional Districts', and 'Other Geographies'. The 'Select one or more source geographies' panel is also visible, showing a list of source geographies. To the right, 'Notes for geography selectors' provide additional instructions.

Select one or more source geographies:

- Urban-Rural Portion
- Urbanized Area/Urban Cluster
- PUMA
- 2013 Geographies:**
 - Core Based Statistical Area (CBSA)
 - CBSA Type (Metro or Micro)
 - Metropolitan Division
 - Combined Statistical Area
 - Central County of CBSA
- 2014 Geographies:**
 - County
 - County Subdivision/Town(ship)/MCD
 - Place (City, Town, Village, CDP, etc.)
 - State Legislative District — Upper Chamber
 - State Legislative District — Lower Chamber
 - Unified School District
 - Elementary School District
 - Secondary School District
 - Best School District
 - Best School District Type
- 2015 Geographies:**
 - Core Based Statistical Area (CBSA)
 - CBSA Type (Metro or Micro)
 - Metropolitan Division
 - Combined Statistical Area
- Congressional Districts:**
 - 111th Congress (2009-2010)
 - 113th Congress (2013-2014)
 - 114th Congress (2015-2016)
- Other Geographies:**

Select one or more target geographies:

- Place Size Category
- Within-a-place Code
- Census Place Code
- 2012 Geographies:**
 - State Legislative District — Upper Chamber
 - State Legislative District — Lower Chamber
 - Urban-Rural Portion**
 - Urbanized Area/Urban Cluster
- PUMA
- 2013 Geographies:**
 - Core Based Statistical Area (CBSA)
 - CBSA Type (Metro or Micro)
 - Metropolitan Division
 - Combined Statistical Area
 - Central County of CBSA
- 2014 Geographies:**
 - County
 - County Subdivision/Town(ship)/MCD
 - Place (City, Town, Village, CDP, etc.)
 - State Legislative District — Upper Chamber
 - State Legislative District — Lower Chamber
 - Unified School District
 - Elementary School District
 - Secondary School District
 - Best School District
 - Best School District Type
- 2015 Geographies:**
 - Core Based Statistical Area (CBSA)
 - CBSA Type (Metro or Micro)
 - Metropolitan Division

Notes for geography selectors:

- * If you chose census block, you may not choose more than 13 states.
- ** If you chose "Concentric Ring Pseudo-Geocode" from either list, you *must* specify either **Point and Distance** or **Ring Geocode** options below.

See the [geographic glossary](#) for descriptions of the source and target geocodes used here.

Step 4: Scroll down and select the first instance of Run request, located directly beneath the OUTPUT OPTIONS section.

OUTPUT OPTIONS

- ☐ Have weighted centroids calculated and kept on the output file
- ☐ Generate second allocation factor [AFACT2] — portion of target geocodes in source geocodes
- ☐ Sort by target geocodes, then source geocodes

Title for output report:

☐ Generate a comma-separated value (CSV) data file:

- ☐ Use tabs as delimiter
- ☒ Include both geographic codes and names (where applicable)
- ☐ Include only codes (no names)
- ☐ Include only names (no codes)

☒ Generate a report:

Format:

- ☒ Include both geographic codes and names (where applicable)
- ☐ Include only codes (no names)
- ☐ Include only names (no codes)

Run request **Reset form**

GEOGRAPHIC FILTERING OPTIONS

Use these options to limit the geographic universe to any or all of three types of geography, using FIPS codes. If you need to look up the codes, follow the links to the code-list files in each section, or use the [geographic codes lookup](#) web app.

Combine geographic filters using:

Step 5: On the output page, first click on the HTML file to view the table. You can download the CSV file, as well.

Geocorr 2014

Query Output

geocorr2014 version 2.3, revised 02/06/2019

Processing started at 9:28:40 on 27APR20

Job id: 27APR0928825

States to be processed: 04 Arizona

Source geocodes requested: county14

Target geocodes requested: ur

Specs appear to be valid. Request being processed. Please be patient.

114742 census blocks selected.

CSV (comma-delimited) output file: [geocorr2014.csv](#)

NOTE: If the program halts here after several minutes, the application has timed out. This can occur during intensive tasks, such as processing multiple states. It may help to turn off the HTML or PDF report option, which tends to consume the most resources and processing time.

Report file: [geocorr2014.html](#)

30 observations on output correlation list.

Processing completed

Retrieve your results by following the links to your output file(s), above.

Processing ended at 9:28:41 on 27APR20. Total elapsed time: 1 seconds.

Step 6: Under the county to UR allocation factor, you can see how much of each county is urban and how much is rural.

In this example, we can see that 74.1 percent of Apache County, Arizona is Rural, while 25.9 percent is Urban.

Geocorr 2014				
Missouri Census Data Center				
Listing of Geographic Correlations				
county14	2014 county name	Urban/Rural	Total population (2010)	county14 to ur allocation factor
04001	Apache AZ	R	52967	0.741
		U	18551	0.259
county14	2014 county name	Urban/Rural	Total population (2010)	county14 to ur allocation factor
04003	Cochise AZ	R	47680	0.363
		U	83666	0.637
county14	2014 county name	Urban/Rural	Total population (2010)	county14 to ur allocation factor
04005	Coconino AZ	R	42297	0.315
		U	92124	0.685
county14	2014 county name	Urban/Rural	Total population (2010)	county14 to ur allocation factor

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